

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

F1_RE

C Number: C20701

Lock Date: 02/24/2009

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.2.0

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DAY ON TEST

WISTAR HAN RATS MALE**0 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	

*** TOTALS****ALIMENTARY SYSTEM**

Esophagus

Intestine Large, Cecum

Intestine Large, Colon

Intestine Large, Rectum

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Liver

Pancreas

Salivary Glands

Stomach, Forestomach

Stomach, Glandular

+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

+	+	+	+	+	+	+	+	+	+	+	10
+	+	+	+	+	+	+	+	+	+	+	10

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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WISTAR HAN RATS MALE	0 mg/m ³	DAY ON TEST											* TOTALS			
			0 0 8 9													
ANIMAL ID													Cardiomyopathy	1	1 1.0	
			0 1 0 0													
ENDOCRINE SYSTEM																
Adrenal Cortex			+	+	+	+	+	+	+	+	+	+	+	+	10	
Adrenal Medulla			+	+	+	+	+	+	+	+	+	+	+	+	10	
Islets, Pancreatic			+	+	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland			+	+	M	+	+	+	+	+	+	+	+	+	9	
Pituitary Gland			+	+	+	+	+	+	+	+	+	+	+	+	10	
Thyroid Gland			+	+	+	+	+	+	+	+	+	+	+	+	10	
GENERAL BODY SYSTEM																
NONE																
GENITAL SYSTEM																
Epididymis			+	+	+	+	+	+	+	+	+	+	+	+	10	
Preputial Gland			+	+	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active															3 1.0	
Prostate			+	+	+	+	+	+	+	+	+	+	+	+	10	
Seminal Vesicle			+	+	+	+	+	+	+	+	+	+	+	+	10	

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WISTAR HAN RATS MALE	0 mg/m ³	DAY ON TEST											* TOTALS	
			0 0 8 9											
ANIMAL ID														* TOTALS
	+ + + + + + + + + +													
Testes	+ + + + + + + + + +													10
HEMATOPOIETIC SYSTEM														
Bone Marrow	+ + + + + + + + + +													10
Lymph Node, Bronchial	+ + + + M + M + M +													7
Lymph Node, Mandibular	+ + + + + + + + + +													10
Lymph Node, Mediastinal Pigmentation	M + M + + + + + + + +													8
	1 1 1 1 1 1 1 1 1													4 1.0
Lymph Node, Mesenteric	+ + + + + + + + + +													10
Spleen	+ + + + + + + + + +													10
Thymus	+ + + + + + + + + +													10
INTEGUMENTARY SYSTEM														
Mammary Gland	+ M + + M M M + M +													5
Skin	+ + + + + + + + + +													10
MUSCULOSKELETAL SYSTEM														
Bone	+ + + + + + + + + +													10
NERVOUS SYSTEM														

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WISTAR HAN RATS MALE	0 mg/m ³	DAY ON TEST											* TOTALS
			0 0 8 9										
			ANIMAL ID										
Brain			+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM													
Larynx			+	+	+	+	+	+	+	+	+	+	10
Lung			+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1										1 1.0
Nose			+	+	+	+	+	+	+	+	+	+	10
Trachea			+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM													
Eye			+	+	+	+	+	+	+	+	+	+	10
Harderian Gland			+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1										2 1.0
URINARY SYSTEM													
Kidney			+	+	+	+	+	+	+	+	+	+	10
Infarct			1										1 1.0
Urinary Bladder			+	+	+	+	+	+	+	+	+	+	10

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WISTAR HAN RATS MALE 2 mg/m ³	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
WISTAR HAN RATS MALE 2 mg/m ³	DAY ON TEST ANIMAL ID	8	8	8	8	8	8	8	8	8	8
		9	9	9	9	9	9	9	9	9	9
WISTAR HAN RATS MALE 2 mg/m ³	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1
WISTAR HAN RATS MALE 2 mg/m ³	DAY ON TEST ANIMAL ID	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	1
WISTAR HAN RATS MALE 2 mg/m ³	DAY ON TEST ANIMAL ID	1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Liver	+	1
Inflammation, Chronic	2	1 2.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial Pigmentation	M	M	M	+	M	+	+	+	+	M	5
										1	1.0

Lymph Node, Mediastinal Pigmentation	+	+	+	+	+	+	+	M	+	+	9
								1		1	4 1.0

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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DAY ON TEST

WISTAR HAN RATS MALE**2 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
0	0	0	0	0	0	0	0	0	1	1
1	2	3	4	5	6	7	8	9	0	

*** TOTALS**

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Congestion						2					1 2.0
Hemorrhage							1				1 1.0
Inflammation, Chronic Active	1	1	1	1							4 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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DAY ON TEST

WISTAR HAN RATS MALE**15 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
4	4	4	4	4	4	4	4	4	4	4
0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	0

*** TOTALS****ALIMENTARY SYSTEM**

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEMLymph Node, Bronchial
Pigmentation

M + + M + M + + + M +

6
3 1.0Lymph Node, Mediastinal
Pigmentation

+ + M + + + M + + +

8
3 1.7**INTEGUMENTARY SYSTEM**

NONE

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Lab: BNW

DAY ON TEST

WISTAR HAN RATS MALE**15 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
4	4	4	4	4	4	4	4	4	4	4
0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	

*** TOTALS****MUSCULOSKELETAL SYSTEM**

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage										2	1 2.0
Inflammation, Chronic Active	2	1	1		2		2	2	2	2	8 1.8
Pigmentation	2	2	1	2	2	2	2	2	2	2	10 1.9
Alveolus, Infiltration Cellular, Histiocyte	2	2			2	2	2	2	2	2	8 2.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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DAY ON TEST

WISTAR HAN RATS MALE**30 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	

*** TOTALS****ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	10
						1					1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	----

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			0 0 8 9	0 0 8 9	0 0 8 9								
ANIMAL ID	0 1 6 0 1	0 1 6 0 2	0 1 6 0 3	0 1 6 0 4	0 1 6 0 5	0 1 6 0 6	0 1 6 0 7	0 1 6 0 8	0 1 6 0 9	0 1 6 0 0			
Heart Cardiomyopathy			+ + + + + + + + + +										10 1 1.0
ENDOCRINE SYSTEM													
Adrenal Cortex			+ + + + + + + + + +										10
Adrenal Medulla			+ + + + + + + + + +										10
Islets, Pancreatic			+ + + + + + + + + +										10
Parathyroid Gland			M + + + M M + + + +										7
Pituitary Gland			+ + + + + + + + + +										10
Thyroid Gland			+ + + + + + + + + +										10
GENERAL BODY SYSTEM													
NONE													
GENITAL SYSTEM													
Epididymis			+ + + + + + + + + +										10
Preputial Gland Inflammation, Chronic Active			+ + + + + + + + + +										10 5 1.0
Prostate Inflammation, Chronic			+ + + + + + + + + +										10 1 2.0

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			0 0 8 9	0 0 8 9	0 0 8 9											
ANIMAL ID	0 1 6 0 1	0 1 6 0 2	0 1 6 0 3	0 1 6 0 4	0 1 6 0 5	0 1 6 0 6	0 1 6 0 7	0 1 6 0 8	0 1 6 0 9	0 1 6 0 0						
Seminal Vesicle	+ + + + + + + + + +												10			
Testes	+ + + + + + + + + +												10			
HEMATOPOIETIC SYSTEM																
Bone Marrow	+ + + + + + + + + +												10			
Lymph Node, Bronchial Pigmentation	+ 1	M 1	+ 3	M 2	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2			8 7 1.9			
Lymph Node, Mandibular	+ + + + + + + + + +													10		
Lymph Node, Mediastinal Pigmentation	+ 2	M 1	+ 1			9 5 1.6										
Lymph Node, Mesenteric	+ + + + + + + + + +													10		
Spleen	+ + + + + + + + + +													10		
Thymus	+ + + + + + + + + +													10		
INTEGUMENTARY SYSTEM																
Mammary Gland	+ + M M M M + M M M													3		
Skin	+ + + + + + + + +													9		
MUSCULOSKELETAL SYSTEM																
Bone	+ + + + + + + + + +													10		

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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DAY ON TEST

WISTAR HAN RATS MALE**30 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
6	6	6	6	6	6	6	6	6	6	6
0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	

*** TOTALS****NERVOUS SYSTEM**

Brain

+ + + + + + + + + +

10**RESPIRATORY SYSTEM**

Larynx

+ + + + + + + + + +

10

Lung

+ + + + + + + + + +

10

Hemorrhage

3 1.7

Inflammation, Chronic Active

10 2.0

Pigmentation

10 2.9

Alveolus, Infiltration Cellular, Histiocyte

10 2.9

Nose

+ + + + + + + + + +

10

Goblet Cell, Hyperplasia

1 1.0

Trachea

+ + + + + + + + + +

10**SPECIAL SENSES SYSTEM**

Eye

+ + + + + + + + + +

10

Inflammation, Chronic Active

1 1.0

Harderian Gland

+ + + + + + + + + +

10**URINARY SYSTEM**

Kidney

+ + + + + + + + + +

10

Nephropathy

2 1.0

Pelvis, Dilatation

1 2.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

WISTAR HAN RATS MALE 30 mg/m ³	DAY ON TEST ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		8	8	8	8	8	8	8	8	8	8
		9	9	9	9	9	9	9	9	9	9
		0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1
		6	6	6	6	6	6	6	6	6	6
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
		* TOTALS									
Urinary Bladder		+	+	+	+	+	+	+	+	+	10

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

DAY ON TEST

WISTAR HAN RATS FEMALE**0 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	

*** TOTALS****ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach Hyperplasia, Squamous	+	+	+	+	+	+	+	+	+	+	10 2 1 2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

WISTAR HAN RATS FEMALE	0 mg/m ³	DAY ON TEST											* TOTALS
			0 0 8 9										
ANIMAL ID													
	0 1 1 0 1	1 1 1 0 2	1 1 1 0 3	1 1 1 0 4	1 1 1 0 5	1 1 1 0 6	1 1 1 0 7	1 1 1 0 8	1 1 1 0 9	1 1 1 0 0	1 1 1 0 1	1 1 1 0 0	
Heart			+ + + + + + + + + +										10
ENDOCRINE SYSTEM													
Adrenal Cortex			+ + + + + + + + + +										10
Adrenal Medulla			+ + + + + + + + + +										10
Islets, Pancreatic			+ + + + + + + + + +										10
Parathyroid Gland			+ + + + + + + + M +										9
Pituitary Gland			+ + + + + + + + + +										10
Thyroid Gland			+ + + + + + + + + +										10
GENERAL BODY SYSTEM													
NONE													
GENITAL SYSTEM													
Clitoral Gland			+ + + + + + + + + +										10
Inflammation, Chronic Active			1 1										2 1.0
Ovary			+ + + + + + + + + +										10
Uterus			+ + + + + + + + + +										10
HEMATOPOIETIC SYSTEM													

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

WISTAR HAN RATS FEMALE	DAY ON TEST											* TOTALS
		0 0 8 9										
0 mg/m ³	ANIMAL ID	0 1 1 0 1	0 1 1 0 2	0 1 1 0 3	0 1 1 0 4	0 1 1 0 5	0 1 1 0 6	0 1 1 0 7	0 1 1 0 8	0 1 1 0 9	0 1 1 0 0	
Bone Marrow		+ + + + + + + + + +										10
Lymph Node, Bronchial Pigmentation		M + + + M + + + M M										6
Lymph Node, Mandibular		+ + + + + + + + + +										10
Lymph Node, Mediastinal Pigmentation		+ + + + M I + + + +										8
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte		+ + + + + + + + + +										10
Spleen		+ + + + + + + + + +										10
Thymus		+ + + + + + + + + +										10
INTEGUMENTARY SYSTEM												
Mammary Gland		+ + + + + + + + + +										10
Skin		+ + + + + + + + + +										10
MUSCULOSKELETAL SYSTEM												
Bone		+ + + + + + + + + +										10
NERVOUS SYSTEM												
Brain		+ + + + + + + + + +										10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

DAY ON TEST

WISTAR HAN RATS FEMALE**0 mg/m³**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	0	

*** TOTALS****RESPIRATORY SYSTEM**

Larynx

+ + + + + + + + + + 10

Lung

+ + + + + + + + + + 10

Nose

+ + + + + + + + + + 10

Trachea

+ + + + + + + + + + 10

SPECIAL SENSES SYSTEM

Eye

+ + + + + + + + + + 10

Harderian Gland

+ + + + + + + + + + 10

URINARY SYSTEM

Kidney

+ + + + + + + + + + 10

Nephropathy

1 1.0

Urinary Bladder

+ + + + + + + + + + 10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal
- 3) Moderate
- 2) Mild
- 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
2 mg/m ³ | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------------|----------|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | | | | | | | | | |

ALIMENTARY SYSTEM

| | | |
|---------------------------|---|---|
| Esophagus | + | 1 |
| Intestine Large, Cecum | + | 1 |
| Intestine Large, Colon | + | 1 |
| Intestine Large, Rectum | + | 1 |
| Intestine Small, Duodenum | + | 1 |
| Intestine Small, Ileum | + | 1 |
| Intestine Small, Jejunum | + | 1 |
| Liver | + | 1 |
| Pancreas | + | 1 |
| Salivary Glands | + | 1 |
| Stomach, Forestomach | + | 1 |
| Stomach, Glandular | + | 1 |

CARDIOVASCULAR SYSTEM

| | | |
|-------|---|---|
| Heart | + | 1 |
|-------|---|---|

ENDOCRINE SYSTEM

| | | |
|--|---------------------------------------|-----------------------------|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | M .. Missing tissue | 1-4 .. Lesion qualified as: |
| + .. Tissue examined microscopically | A .. Autolysis precludes evaluation | 1) Minimal 3) Moderate |
| X .. Lesion present | BLANK .. Not examined microscopically | 2) Mild 4) Marked |
| I .. Insufficient tissue | | |

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
2 mg/m ³ | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | |
|---|--------------------------|----------|---|---|---|---|---|---|---|---|---|-------|--|--|--|--|--|--|--|--|--|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | | | | | | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | | | | | | | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Adrenal Medulla | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Islets, Pancreatic | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Parathyroid Gland | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Pituitary Gland | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Thyroid Gland | | + | | | | | | | | | | 1 | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Inflammation, Chronic Active | | 1 | | | | | | | | | | 1 1.0 | | | | | | | | | | |
| Ovary | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Uterus | | + | | | | | | | | | | 1 | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | | | | | | | | | | 1 | | | | | | | | | | |
| Lymph Node, Bronchial Pigmentation | M | + | M | M | M | + | + | + | M | + | | 5 | | | | | | | | | | |
| | | | | | | | | | | | | 1 1.0 | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE | 2 mg/m ³ | DAY ON TEST | | | | | | | | | | | * TOTALS |
|--------------------------------------|---------------------|-------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|----------|
| | | | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | |
| ANIMAL ID | | | 0
1
3
0
1 | 0
1
3
0
2 | 0
1
3
0
3 | 0
1
3
0
5 | 0
1
3
0
6 | 0
1
3
0
7 | 0
1
3
0
8 | 0
1
3
0
9 | 0
1
3
0
0 | | |
| | | | Lymph Node, Mandibular | | | | | | | | | + | 1 |
| | | | Lymph Node, Mediastinal
Pigmentation | + | + | + | + | + | + | + | + | | 10 |
| | | | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 9 1.1 |
| | | | Lymph Node, Mesenteric | | | | | | | | | + | 1 |
| | | | Spleen | | | | | | | | | + | 1 |
| | | | Thymus
Necrosis | | | | | | | | | + | 1 |
| | | | | | | | | | | | | 3 | 1 3.0 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | | | | | + | 1 |
| Skin | | | | | | | | | | | | + | 1 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | |
| Bone
Inflammation, Chronic Active | | | | | | | | | | | | + | 1 4.0 |
| | | | | | | | | | | | | 4 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | |
| Brain | | | | | | | | | | | | + | 1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | |
| Larynx | | | | | | | | | | | | + | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
2 mg/m ³ | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---|--------------------------|----------|---|---|---|---|---|---|---|---|---|-------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | * TOTALS | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | 10 |
| Pigmentation | | | | | | 1 | | | | | | 1 1.0 |
| Nose | | | | | | | | + | | | | 1 |
| Trachea | | | | | | | | + | | | | 1 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | |
| Eye | | | | | | | + | | | | | 1 |
| Harderian Gland | | | | | | | + | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | |
| Kidney | | | | | | | + | | | | | 1 |
| Urinary Bladder | | | | | | | + | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

DAY ON TEST

WISTAR HAN RATS FEMALE**15 mg/m³**

ANIMAL ID

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |

*** TOTALS****ALIMENTARY SYSTEM**

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEMLymph Node, Bronchial
Pigmentation

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| M | + | M | + | + | + | + | + | + | M | |
| | | | | 2 | 1 | 1 | | | | 7 |

3 1.3

Lymph Node, Mediastinal
Pigmentation

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| + | + | I | + | + | I | + | + | + | + | |
| 1 | 1 | | 1 | 2 | | 1 | 2 | | 1 | 8 |

7 1.3

INTEGUMENTARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20701 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

DAY ON TEST

WISTAR HAN RATS FEMALE

15 mg/m³

ANIMAL ID

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung

+

10

Inflammation, Chronic Active

1

1 1.0

Pigmentation

1 1 1 1 1 2 1 1 1 1

10 1.1

Alveolus, Infiltration Cellular, Histiocyte

2

1 2.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

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BLANK .. Not examined microscopically

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TDMS No. 20701 - 01

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First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

DAY ON TEST

WISTAR HAN RATS FEMALE**30 mg/m3**

ANIMAL ID

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*** TOTALS****ALIMENTARY SYSTEM**

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Hepatocyte, Pigmentation | | | | | | | | | | 3 | 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
|--------------|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

I .. Insufficient tissue

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Species/Strain: RATS/Wistar Han

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CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:58:41

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
30 mg/m3 | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------------|--------------------------|----------|---|---|---|---|---|---|---|---|-------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | 10 |
| ENDOCRINE SYSTEM | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | | + | + | + | + | + | M | + | + | + | 9 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | | + | + | + | + | M | + | + | + | + | 9 |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | 10 |
| GENERAL BODY SYSTEM | | | | | | | | | | | |
| NONE | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic Active | | | | | 1 | 1 | 1 | | | | 3 1.0 |
| Ovary | | + | + | + | + | + | + | + | + | + | 10 |
| Uterus | | + | + | + | + | + | + | + | + | + | 10 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | |

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First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
30 mg/m3 | DAY ON TEST
ANIMAL ID | | | | | | | | | | | * TOTALS |
|--------------------------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------|
| | | 0
0
8
9 | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Bronchial Pigmentation | M
1 | + | + | + | + | M
2 | + | M
M | M
0 | M
1 | M
7 | 5
4 1.5 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mediastinal Pigmentation | M
3 | + | + | + | + | + | + | + | + | + | + | 9
7 1.6 |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | 10 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | | + | + | + | + | + | + | + | + | + | + | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | 10 |
| NERVOUS SYSTEM | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | 10 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | |

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| WISTAR HAN RATS FEMALE | 30 mg/m ³ | DAY ON TEST | | | | | | | | | | | * TOTALS | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|----------|-----|--|
| | | | 0
0
8
9 | 0
0
8
9 | 0
0
8
9 | | | |
| ANIMAL ID | | | | | | | | | | | | | | | |
| | 0
1
7
0
1 | 1
1
7
0
2 | 1
1
7
0
3 | 1
1
7
0
4 | 1
1
7
0
5 | 1
1
7
0
6 | 1
1
7
0
7 | 1
1
7
0
8 | 1
1
7
0
9 | 1
1
7
0
0 | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Inflammation, Chronic Active | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 10 | 2.0 | |
| Pigmentation | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 | 2.9 | |
| Alveolus, Infiltration Cellular, Histiocyte | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 | 2.9 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Mineralization | | | | | | | | | | | | | 1 | 1.0 | |
| Nephropathy | | | | | | | | | | | | | 1 | 1.0 | |
| Pelvis, Dilatation | | | | | | | | | | | | | 1 | 2.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | 10 | | |

*** END OF REPORT ***

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